CLAIMS

What is claimed is:

1. A grill unit, comprising:

a plurality of grill pipes, each grill pipe having two ends;

water tanks connected to both ends of the grill pipes to supply water to the grill pipes; and

soundproofing covers positioned around both ends of the grill pipes that are inserted into the water tanks.

2. The grill unit according to claim 1, further comprising a plurality of projections formed on an inner surface of each of the soundproofing covers, wherein one of the ends of each of the grill pipes is partially obstructed by a corresponding one of the projections while being spaced apart from the corresponding projection to enable water contained in each grill pipe to flow therein in one direction.

3. The grill unit according to claim 2, wherein the ends of the plurality of grill pipes are alternately and partially obstructed by the corresponding projections, the plurality of projections being alternately arranged in both of the water tanks.

4. The grill unit according to claim 1, wherein:

both ends of the grill pipes, which are open, face top surfaces of the water tanks; and

the soundproofing covers each comprise a top surface opposite the open ends of the grill pipes to intercept water vapor discharged from the grill pipes, and at least one side surface downwardly bent and extended from an edge of each top surface by a predetermined length and open at a lower end thereof.

5. The grill unit according to claim 1, wherein:

both ends of the grill pipes, which are open, face side surfaces of the water tanks; and

the soundproofing covers each comprise a top surface positioned over upper surfaces of the ends of the grill pipes to intercept water vapor discharged from the grill pipes, and a side surface opposite the open ends of the grill pipes and open at a lower end thereof.

6. The grill unit according to claim 1, wherein each of the water tanks comprises a cover installed on an open upper portion thereof to selectively open and close each of the water tanks.

7. The grill unit according to claim 1, wherein each of the soundproofing covers extends in a longitudinal direction to the water tanks and are positioned around the ends of the plurality of grill pipes inserted into the water tanks.

8. A cooking apparatus with a grill unit, comprising:

a cabinet having at least one heater; and

a grill unit mounted on a top surface of the cabinet to support food, the grill unit having a plurality of grill pipes, water tanks connected to both ends of the grill pipes to supply water to the grill pipes, and soundproofing covers positioned around both ends of the grill pipes that are inserted into the water tanks.

9. The cooking apparatus according to claim 8, further comprising a plurality of projections formed on an inner surface of each of the soundproofing covers, wherein one of the ends of each of the grill pipes is partially obstructed by a corresponding one of the projections while being spaced apart from the corresponding projection to enable water contained in each grill pipe to flow therein in one direction.

10. The cooking apparatus according to claim 9, wherein the ends of the plurality of grill pipes are alternately and partially obstructed by the corresponding projections, the plurality of projections being alternately arranged in both of the water tanks.

11. The cooking apparatus according to claim 8, wherein:

both ends of the grill pipes, which are open, face top surfaces of the water tanks; and

the soundproofing covers each comprise a top surface opposite the open ends of the grill pipes to intercept water vapor discharged from the grill pipes, and at least one side surface downwardly bent and extended from an edge of each top surface by a predetermined length and open at a lower end thereof.

12. The cooking apparatus according to claim 8, wherein:

both ends of the grill pipes, which are open, face side surfaces of the water tanks; and

the soundproofing covers each comprise a top surface positioned over upper surfaces of the ends of the grill pipes to intercept water vapor discharged from the grill pipes, and a side surface opposite the open ends of the grill pipes and open at a lower end thereof.

13. The cooking apparatus according to claim 8, wherein each of the water tanks comprises a cover installed on an open upper portion thereof to selectively open and close each of the water tanks.

14. The cooking apparatus according to claim 8, wherein each of the soundproofing covers extends in a longitudinal direction to the water tanks and are positioned around the ends of the plurality of grill pipes inserted into the water tanks.

15. The cooking apparatus according to claim 8, wherein each side of each grill pipe comprises:

a laterally extended part; and

an upwardly extended part that is upwardly bent and extended from the laterally extended part and open at a top thereof to interface with an inside of a corresponding one of the water tanks to reinforce the rigidity of portions of each grill pipe connected to the corresponding water tank.

16. The cooking apparatus according to claim 15, wherein each grill pipe comprises:

inclined parts at respective sides of each grill pipe, each inclined part being downwardly bent at a predetermined angle and extended from respective laterally extended parts; and

a horizontally extended part on which food is placed, sides of which extending from respective inclined parts, the horizontally extended part being positioned lower than the respective water tanks to place the food near the at least one heater.

17. The cooking apparatus according to claim 8, wherein each soundproofing cover comprises:

side surfaces; and

a fixing part having one end connected to a lower end of one of the side surfaces and another end connected to an inner lower surface of a respective one of the water tanks, another one of the side surfaces having an open lower end that is spaced apart from the inner lower surface of the respective water tank to allow water vapor to be discharged through the open lower end,

wherein an air layer forms as the discharged water vapor collects in the soundproofing covers to increase a level of soundproofing.

18. The cooking apparatus according to claim 9, wherein the projections are formed at intervals corresponding to twice the distance between adjacent grill pipes to alternately and partially obstruct the ends of the grill pipes.

19. A grill unit, comprising:

a plurality of grill pipes, each grill pipe having two ends;

water tanks connected to both ends of the grill pipes to supply water to the grill pipes, both ends of the grill pipes facing side surfaces of the water tanks; and

soundproofing covers positioned around both ends of the grill pipes that are inserted into the water tanks, the soundproofing covers each comprising a top surface positioned over upper surfaces of respective ends of the grill pipes to intercept water vapor discharged from the grill pipes, and a side surface opposite the respective ends of the grill pipes and open at a lower end thereof,

wherein the grill pipes are prevented from overheating by allowing water to flow into the grill pipes from the water tanks, thereby preventing food contacting the grill pipes from burning when the grill pipes are heated and slowing an increase in temperature of the grill pipes to reduce an amount of water vapor generated, and

wherein the soundproofing covers positioned around the ends of the grill pipes and spaced apart from the grill pipes prevent noise from being generated when water vapor, which is produced in the grill pipes when water in the grill pipes boils, discharges to the water tanks at a discharge pressure.

20. The grill unit according to claim 19, wherein the grill pipes are made of a metallic material and the water tanks are manufactured by injection molding of a resin material.

21. The grill unit according to claim 19, wherein each water tank has a lower portion and a side portion, with the lower portion being thicker than the side portion.

22. The grill unit according to claim 19, wherein water continuously circulates in the grill pipes, while flowing in opposite directions in each pair of adjacent grill pipes, to slowing an increase in temperature of the grill pipes when the grill pipes are heated, thereby reducing the water vapor generated in the grill pipes and reducing the noise generated.

23. The grill unit according to claim 5, further comprising a plurality of projections formed on a side surface of one of the soundproofing covers, wherein one of the ends of each of the grill pipes is partially obstructed by a corresponding one of the projections while being spaced apart from the corresponding projection to enable water contained in each grill pipe to flow therein in one direction.